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B Electromagnetic theory of the injection laser		
Electromagnetic theory		
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tunction laser, semicondation		
TAGE laser, injection laser, junction medium lated emission, radiative recombination, active medium		
ABSTRACT: The authors investigated the argular distribution of stimulated emission from a laser diode and calculated the quantum yield coefficient y (defined emission from a laser diode and calculated the quantum yield coefficient y (defined emission from a laser diode and calculated in the active region by radiative emission from a laser diode for the amplitudes of the field vectors in the nature of emitted power to power generated in the field vectors in the nature of the TE and TM modes of propagation are summarized. These that the TE and TM modes of propagation y is given by the same formulas. The the TE and TM modes of propagation y is given by the same formulas. The theory as a function of the angle in the plane perpendicular to the Junction of the angle in the plane perpendicular to the Junction of the angle in the plane perpendicular to the field in the nearly present the penetration depth of the field in the nearly present of the propagation of the summarized from the field in the nearly present of the propagation of the plane perpendicular to the propagation of the plane perpendicular to the field in the nearly present of the propagation of the field in the nearly present of the propagation of the plane perpendicular to the field in the nearly present of the propagation of the plane perpendicular to the field in the nearly present of the propagation of the plane perpendicular to the field in the nearly present of the propagation of the plane perpendicular to the field in the nearly present of the field of the propagation of the plane perpendicular to the field of the field in the nearly present of the field of the fiel		4
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ACCESSION NR: AP5012566

p- and n-regions, will be present in the angular distribution of the energy flux. Physically, the presence of two peaks is associated with the components of the wave vector in the p- and n-regions which are perpendicular to the plane of the lies shown that the angular distance between the peaks determines the lies active region. Orig. art. has a final peaks determines the lies active region. Orig. art. has a final lies active, and SSSR)

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L 00541-66 EWT(1)/I UP(c) UR/0056/65/049/001/0097/0106 ACCESSION NR: AP5019221 44.55 44.55 Aleksandrov, Ye. B.; Konstantinov, O. V.; Perel', AUTHORS: TITLE: Optical orientation of atoms in a magnetic field perpendicular to the beam SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 1, 1965, 97-106 TOPIC TAGS: magnetic moment, molecular beam, beam modulation, gas laser ABSTRACT: The authors investigate theoretically and experimentally a new method of orienting gas atoms in a magnetic field perpendicular to an orienting light beam. This is done by using an alternating magnetic field in addition to a constant one, and modulating the alternating field while maintaining the beam intensity constant. It is shown theoretically that if the alternating field makes a Card 1/3

L 00541-56

ACCESSION NR: AP5019221

small angle with the constant field, then the resultant moment precesses about the constant field and produces large constant components of the magnetic moment in the directions of the magnetic field and of the light. The theory of the process is briefly developed and expressions are derived for the total moment and its projections. To check on the theory, experiments were made on the dc and ac components of the moment projections on the light beam and on the constant field in the vicinity of the first resonance. The experiments were made with a mixture of cesium vapor and argon, using an orienting beam which was circularly polarized and contained only one long-wave component of the resonant doublet. A cesium electrodeless discharge spherical lamp served as the source. The experiment setup is described. The test results are found to be in satisfactory agreement with the theory. Plots were obtained of the depth of modulation of light on the amplitude of the alternating field, of the dc components of the moment against the constant field, and of the resonant broadening by the alternating field. Orig. art.

Card 2/3

!	L 00541-66 / ACCESSION NR: AP5019221	,
	has: 6 figures and 16 formulas.	: ·
	ASSOCIATION: Gosudarstvennyy opticheskiy institut im. S. I. Vavilova (State Optical Institute)	,
	SUBMITTED: 16Feb65 ENCL: 00 SUB CODE: OP	,
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L 46829-66 EWT(1)/T IJP(c) A'

ACC NR: AP6015465

SOURCE CODE: UR/0181/66/008/005/1467/1478

4/

AUTHOR: Konstantinov, O. V.; Efros, A. L.

B

ORG: Physics Engineering Institute im. A. F. Ioffe, AN SSSR, Leningrad (Fiziko-tekhnicheskiy institut AN SSSR)

TITLE: A strong injection in a nondegenerate p-n transition

SOURCE: Fizika tverdogo tela, v. 8, no. 5, 1966, 1467-1478

TOPIC TAGS: pn transition, hole injection, nondegenerate transition, volt ampere characteristic

ABSTRACT: The authors discuss the approximate solution obtained by them to describe the entire process of concentration of injected holes. This solution holds true when the drift length is substantially greater than the diffusion length. The problem of the voltage drop in the transition $(\delta\psi)$ itself is also discussed. The solution obtained is more accurate that the drift approximation due to C. Herring (Bell Syst. Tech. J., 28, 401, 1949). A relationship is found between the injected concentration and the current and the volt-ampere characteristic of such a diode. In conclusion the authors wish to express their sincere gratitude to B. V.

Card 1/2

L 41599-66 EWT(1)/T IJP(c) ACC NR: AP6018552 SOURCE CODE: UR/0181/66/008/006/1866/1877 AUTHOR: Konstantinov, O. V.; Tsarenkov, G. V. ORG: Physicotechnical Institute im. A. F. Ioffe, AN SSSR, Leningrad (Fizikotekhnicheskiy institut AN SSSR) TITLE: Recombination waves in a bounded sample SOURCE: Fizika tverdogo tela, v. 8, no. 6, 1966, 1866-1877 TOPIC TAGS: electron recombination, semiconductor carrier, carrier density, minority carrier, semiconductor plasma ABSTRACT: This is an extension of earlier work by one of the authors (Konstantinov, with V. I. Perel, FTT v. 6, 3365, 1964) dealing with the natural recombination waves produced in semiconductors with two types of current carriers upon deviation of the free-carrier density from equilibrium. Whereas the earlier study was devoted to unbounded semiconductors; or to annular semiconductors without contacts, the present paper deals with samples of finite lengths and with ohmic contacts (ohmic in the sense that any deviation of the carrier density from equilibrium is equal to zero). It is shown that when the carrier drift in a constant electric field exceeds a certain critical value, corresponding to a certain critical field, the natural oscillations are produced; formulas are given for the critical field and for the critical frequency. If the sample length exceeds the diffusion length of the minority carriers, a second class of oscillations is produced, called almost-natural oscillations, which do not 1/2 Card Card

KONSTANTINOV, 0.Ya., insh.

New high-duty "corn-type" cutters; Mashinostroitel' no.1:37-40
Ja "59.

(Metal-cutting tools)

(MIRA 12:2)

25(2)

SOV/117-59-3-6/37

AUTHOR:

Konstantinov, C.Ya., Engineer

TITLE:

The Modernization of Face Grinding Machines (Modernizatsiya ploskoshlifoval'nykh stankov)

PERIODICAL:

Mashinostroitel', 1959, Nr 3, pp 9 - 12 (USSR)

ABSTRACT:

There are about 50 types of face grinders in use in the USSR, of home and foreign make, the horizontal-spindle "SK-371" and "371-M" grinders of the Moscow, Vitebsk and Zlatoust machine tool plants being the most widely used. The modernization described concerns the design of the spindle assembly in the last mentioned grinders, i.e. of the element that is mainly responsible for the accuracy and the finish of the ground work. The old design (Figure 1) made the adjustment of the spindle bearing extremely difficult. The alignment of the front and the rear spindle support was also very difficult, and the assembling and dismantling of the unit was unduly complex. The best solution was the spindle

Card 1/2

SOV/117-59-3-6/37

The Modernization of Face Grinding Machines

assembly design (Figure 2) with ball bearings, devised by the locksmith, B.T. Gel'berg, of the Lenin-gradskiy zavod poligraficheskikh mashin - "Lenpoligrafmash" (the Leningrad Printing Machine Plant) that was tested at the chair "Technology of Machinebuilding" of the Leningradskiy inzhenerno-ekonomicheskiy institut (Leningrad Engineering-Economics Institute). The article also deals with the causes of surface waviness occurring in the face grinders "SK-371". It was revealed that the real cause was the insufficient removal of clogged and blunted abrasive material from the surface of the grinding wheel while setting it. It was observed that the plants set grinding wheels by removing only 0.05 to 0.3 mm from the surface, and as a result spots are left on the circumference of the wheel which develop to spots of different hardness or different cutting capacity. These leave regularly spaced waves on the work surface. There are 4 sets of drawings, 1 set of graphs and 1 set of photographs.

Card 2/2

Fine straightening of wheels for flat-surface grinding. Trudy LIBI
(NIRA 13:10)

(Grinding and polishing)

Conditions of fine flat-surface grinding of parts with the wheel periphery. Trudy LIBI no.3:47-57 '60. (MIRA 13:10) (Grinding and polishing)

KONSTANTINOY CIYA

PHASE I BOOK EXPLOITATION

sov/4501

Leningrad. Inzhenerno-ekonomicheskiy institut

Chistovaya obrabotka i sostoyaniye obrabotannoy poverkhnosti (Finishing Operations and Surface Roughness) [Leningrad] Izd-vo Leningr. univ-ta, 1960. 268 p. (Series: Its: Trudy, vyp. 30) 1,825 copies printed.

Ed. (Title page): A.A. Matalin, Professor; Ed. (Inside book): G.M. Aron; Tech. Ed.: S.D. Vodolagina.

This collection of articles is intended for technical personnel in the machine-building industry and for students in schools of higher technical education.

COVERAGE: The collection contains articles on the problems of developing methods for mechanical machining (such as grinding and superfinishing with strain hardening, roll burnishing, fine grinding, etc.) which would serve to increase the life of machine parts exposed to friction and wear, and thereby insure high productivity and economy. Methods for determining residual stresses (only in macrostresses and microstresses) are discussed in detail. Also considered are the possibility

Card 2/4

Finishing Operations and Surface Roughness	sov/4501
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APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R0 Finishing Operations and Surface Roughness SOV/4501	00824410013
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AVAILABLE: Library of Congress	
	rc/gmp -16-60

KONSTANTINOV, O. Ya. Cand Tech Sci -- "Study of the process of flat polithing of high class purity and precision." Len, 1961 (Min of Higher and Secondary Specialized Education RSFSR. Len Inst of Precision Mechanics and 8 Optics).

(KL, 4-61, 197)

-142-

3/514/61/000/005/012/014 1007/1207

Author:

Monatantinov, U.Ya.

TITLE:

Surface grinding of components requiring a high degree of surface

finish and necessary -

SOURCE:

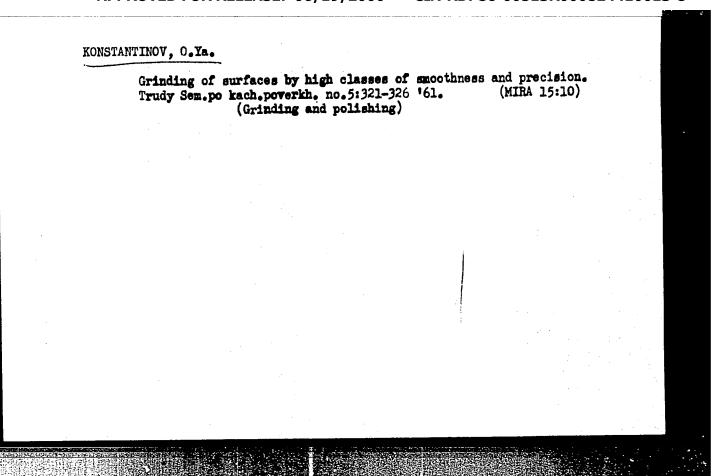
Akademiya nauk. kommissiya po tekhnologii mashinostroyeniya. Semina po kachestvu poverkhnosti. Trudy. no.5. 1961. Kachestvo poverkhnosti detuley masmin; metody i pribory, uprochmeniye metallov, tekhnologiya

mashinostroyemya, 521-326

TEXT: In order to study the processes of peripheral grinding carried out by horizontal surface-grinders, in view of the increasing requirements for accuracy and surface quality, the department for "Machine-building Technology" of the NOMEN (LEIEI) carried out a series of investigations the results of which are amply reported Tests were conducted on a re-designed and improved surface-grinder of the 271MI type produced by the Vitebak plant. The conditions of truing and dressing the abrassive wheel were studied, the grinding conditions for the obtaining of high surface finish were analyzed, and the accuracy of surface-finish grinding were investigated. As was found, truing coditions for the grinding wheel are essential in obtaining Card 1/2

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and the secretary and



KONSTANTINOV, 0.Ya., kand. tekhn. nauk

Magnetic plate with permanent ceramic magnets. Mashinostroitel' no.9:26-27 S '63. (MIRA 16:10)

(Magnets)

KONSTANTINOV, Oleg Yakoylevich; SEMENENKO, P.A., red.

[Magnetic and electromagnetic machine-tool attachments]
Magnitnye i elektromagnitnye stanochnye prisposobleniia.
Leningrad, 1964. 32 p.

(MIRA 17:9)

KONSTANTINOV, 0.Yz., kand. tekhn. nauk

Thermal deformations and rigidity of electromagnetic attachments.

Mashinostroitel' no.2s25-29 F '65. (MIRA 18s3)

BLYUMENG, V.A., kand. tekhn. nauk; KONSTANTINOV, O.Ya.

Ways for improving machine-tool attachments. Mashinostroitel' no.6; (MIRA 18,7)

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	l. Zamestitel' nachal'nika Molodechnenakogo oblastnogo upravleniye khledoproduktov. (Ventilation) (Grain-Storage)	
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KONSTANTINGY P.

BULGARIA / Diseases in Animals. Diseases Caused by Protozoa

R

Abs Jour: Ref Zhur-Biologiya, No 16, 1958, 74235

Author : Konstantinov, Petor; Denev, Iordan

Inst : Not given

Title : Investigations on the Use of Penicillin During

Coccidiosis in Young Chicks

Orig Pub: Zhivotnovodstvo i vet. delo, 1957, 11, No 3, 24-28

Abstract: Experiments were conducted on three farms. For six days, 2000 unis of penicillin (I) dissolved in distilled water was given daily with food. All of the young chicks that received I recovered and in comparison with the controls gained significantly in weight. Treatment of 3,210 young chicks in field

Card 1/2

29

BULGARIA / Diseases in Animals. Diseases Caused by Protozoa

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Abs Jour: Ref Zhur-Biclogiya, No 16, 1958, 74235

conditions lead to cessation of the dease. An experiment in the prophylactic administration of I was conducted on three farms with 4,500 young chicks. At one farm, 600 units of I was given to the young chicks daily from the moment of hatching; in another—every day for 20 days, beginning when they were 10 days old; in the third—from the moment they hatched for 40 days with a five day interval. At the first two farms, the disease did not appear clinically and the young chicks developed well, although separate occysts were sematimes detected in their stool; in the third—there were cases of murrain in the young chicks.—L. P. Menshikov

Card 2/2

BULGARIA/Diseases of Farm Animals - Diseases Caused by Protozoa

Abs Jour

: Ref Zhur Biol., No 5, 1959, 21431

Author

Pishev, D., Konstantinov, P., Katerinov, Y.

Inst

Title

Studies on Trichomondasis of Cattle in Bulgaria

Orig Pub

: Selskostop. mia"1, 1958, 3, No 1, 49-56

Abstract

: As a result of investigation of 4195 cows at trichomoniasis infested farms and of 102 artificially infected cows, the correlation of trichomoniasis on the one hand and sterlity and abortions on the other was demonstrated. Twenty to 65 percent of cows affected with trichomoniasis were sterile, 0.3-40 percent (3.8 percent on the average) of cows aborted. Most abortions occurred on farms where the disease had appeared a short time previously. In all of the aborted cows and in 11-100 percent (64 percent on the average) of the sterile cows inflammatory processes were found in the sex apparatus; trichomonades, however,

Card 1/2

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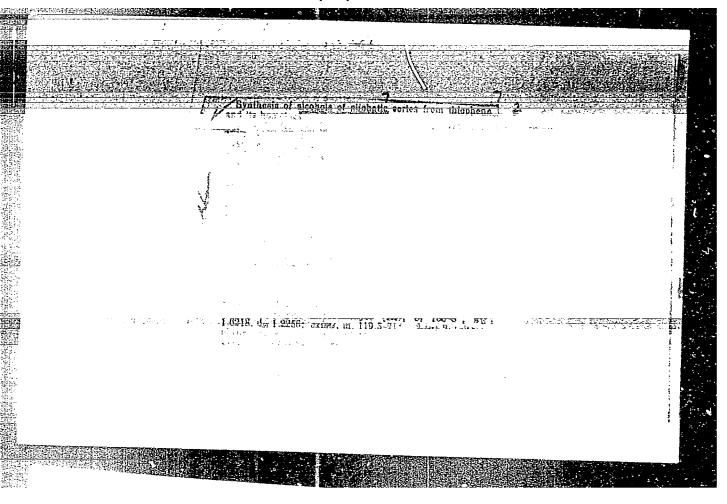
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- USSR (600) 2.
- Ice Cream Freezers
- Method of cleaning up brine in the "Eskimo" generator. Khol. tekh.

Monthly List of Russian Accessions, Library of Congress, January __1953. Unclassified.

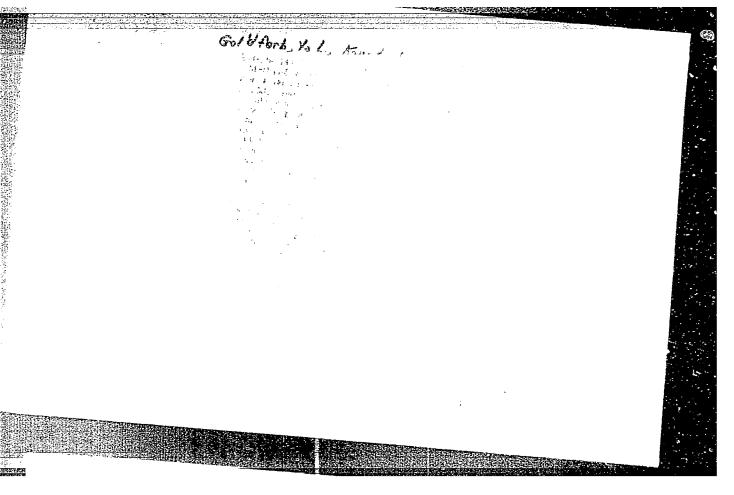
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KONSTANTINOV, P. A. Cand Chem Sci -- (diss) "Effect of basic nickel upon aldehydes, ketones, ethers, and acetals of the thiophene series." Mos., 1957. (Acad Sci USSR. Inst of Organic Chemistry im N. D. Zelinskiy), 120 copies (KL, 6-58, 99)

-7-

We character to take The Klesser

AUTHORS:

Gol'dfarb, Ya. L., and Konstantinov, P. A.

62-1-15/21

TITLE:

The Structure of Products Obtained from the Acylation and Formylation of 2-Methyl-5-Tertiary Butyl Thiophene and 2,5-Di-Tri-butyl Thiophene (O stroyenii produktov atsilirovaniya i formilirovaniya 2-metil-5tret.butiltiofena i 2,5-di-tret.butiltiofena).

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Otdeleniye Khimicheskikh Nauk, 1957,

BSTRACT:

Experiments showed that formylation, acetylation and also bromination of 2-methyl-5-tertiary butyl thiophene force the new substitute into position 3. During the acetylation of 2,5-di-tri-butyl thiophene in the presence of stannicchloride, the migration of the tertiary butyl group has not been observed. The possibility of obtaining thiophencarboxylic acids, substituted in alpha position with alkyl radicals (methyl, tertiary butyl) by simultaneous reaction of iodine

Card 1/2

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and pyridine and consequent all and 2,5-Di-Tri-butyl Thiophene

and pyridine and consequent cleavage (with alkali) of the pyridine salt, is explained. The products obtained are listed as: 2-methyl -5-tert.butyl -3-thiophenecarboxylic acid, 2,5-di-tri-butyl-3thiophenecarboxylic acid and 2-methyl-5-tert. butyl-3-bromothiophene.

There are 14 references, of which 3 are Slavic.

ASSOCIATION:

Academy of Sciences of the USSR, Institute of Organic Chemistry

PRESENTED BY:

SUBMITTED

February 9, 1956

AVAILABLE:

Library of Congress

Card 2/2

5(3)

AUTHORS:

Gol'dfarb, Ya. L., Konstantinov, P. A.

SOV/62-59-1-20/38

TITLE:

On the Effect of Raney Nickel on Ketones and Acetals of the Thiophene Series (O deystvii nikelya Reneya na ketony i

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 1, pp 121 - 129 (USSR)

ABSTRACT:

In the present paper the authors investigated the influence exercised by the structure of some carbonyl-containing compounds of the thiophene series as well as conditions for the reduction of the carbonyl group during hydrogenolysis in the presence of Raney Nickel as a catalyst. The authors tried to explain the possibility of using the factors mentioned for the maintenance of this function in hydrogenolysis. Observation of hydrogenolysis of 2—n—butyro thienone (I) under various conditions have shown that: 1) temperature decrease during treatment with skeleton nickel within a range of 80 to -10° favors a higher yield of octanon-4 (III) and accordingly decreases the yield of octanol-4 (III); 2) Prolongation of hydrogenolysis from 1 to 14 hours did not

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APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824410013-8

On the Effect of Raney Nickel on Ketones and Acetals of 50V/62-59-1-20/33 the Thiophene Series

change considerably the yield of the product; 3) Addition of acetic acid to the primary mixture for neutralizing the alkali collected by nickel also does not change considerably the ratio octanone:octanol. The n-butyl-tertiary butylketone is formed during the reducing desulfurization of tert-butyl-2-thienyl ketone by Raney nickel synthesized according to Adkins and Billica. Under similar conditions, a mixture of aliphatic ketone and secondary alcohol is produced by ketones of the n-butyro thienone type. In view of the fact that Raney nickel is capable of splitting the bonds between carbon atoms and others it was difficult to predict its effect on acetals. It was stated that ethylene acetals of aliphatic aldehydes are synthesized by hydrogenolysis of acetals. This may serve as a preparative method in such cases where the synthesis of the latter by other methods is complicated. There are 18 references, 4 of which

Card 2/3

KONSTANTINOV

5.3610 AUTHORS: - * Santalova, N. I. (Deceased), Konstantinov, <u>8/020/60/131/05/033/069</u> P. A., Gol'dfarb, Ya. L.

TITLE: Reducing Desulfurization of Some Diamines of the Thiophene Series

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol 131, Nr 5, pp 1102-1105 (USSR)

TEXT: The authors wished to extend the reducing desulfurization method to the di-tertiary amines of the thiophene series. Thus, higher alkylene diamines can be obtained, which, in turn, could be utilized to synthetize the bis-ammonium salts with a potential curare-like effect. As compared to decamethonium, the halogen alkylates of the diamines IV and IVa would form a new type of such compounds. They are ramified in the center of the chain. Such ramifications exert an influence on the activity of some substances with a curare-like effect (Ref 4). The authors used 2,2-bis(2-thienyl)-butane which is easily formed from thiophene and methyl ethyl ketone as the starting material. By chloromethylation, the bis-chloro-methyl derivative (I) was obtained. This derivative was used in the "raw" state, since it decomposes to a considerable degree when subjected to vacuum distillation. When hexamethylene tetramine is reacted with I, the corresponding salt, and from this, the diamine II is obtained in the ordinary way. Hydrogenolysis with Raney nickel yielded only mixtures distillable in a too broad range. Therefore, skeleton cobalt was used by the authors, although it is

Card 1/2

L 10666-63 EPR/EWP(j)/EPF(c)/EWI(m)/BDS--ASD--Pr-4/Pc-4/Ps-4-RM/WW 7/ S/079/63/033/004/005/010 49 AUTHOR:

Konstantinov, P.A., Shupik, R.I.

TITLE: Action of Reney nickel on silicoorganic derivatives

PERIODICAL: Zhurnal obshchey khimii, v. 33, no. 4, 1963, 1251-1255

TEXT: The action of halogenoalkylsilanes on lithium derivatives of thiophene and its homologs produces silicoorganic derivatives of thiophene: 2-methyl-5-trimethylsilylthiophene, 2,5-ditrimethylsilylthiophene, dimethyldi-(2 thienyl)silane, diethyldi-(2-thienyl)silane, 5-trimethylsilyl-2-thiophene aldehyde and β -(5-trimethylsilyl-2-thienyl)ethanol. Upon the action of Renew nickel on silicoorganic derivatives of thiophene the Reney nickel on silicoorganic derivatives of thiophene the C-S bond is broken and the corresponding derivatives of the

Card 1/2

L 10666-63

S/079/63/033/004/005/010

Action of Reney nickel on ...

aliphatic series are formed. The introduction of atoms of silicon into the \propto -position of the thiophene ring increases the stability of the ring with respect to Reney nickel. Silicoorganic compounds of the aliphatic series were obtained: trimethylpentylsilane, 1,4-bis(trimethylsilyl)butane, dimethyl-dibutylsilane, and 5-trimethylsilylpentanol-1. There is 1 table of characteristics of the alkyl thienylsilanes.

ASSOCIATION: Moskovskiy fiziko-technicheskiy institut

(Moscow Physics-Engineering Institute)

SUBMITTED:

May 18, 1962

Card 2/2

ZHUKOV-VEREZHNIKOV, N.N.; VOLKOV, M.N.; RYBAKOV, N.I.; SAKSOMOV, P.P.;

KOZLOV, V.A.; KONSTANTINOV, P.A.; ANTIPOV, V.V.; LOEROV, N.H.;

New ways of studying chemical protection against genetic changes.

Probl. kosm. biol. 4:445-450 '65. (MIRA 18:9)

L 11657-66 EWT(d)/FSS-2 ACC NR: AP6000790 SOURCE CODE: UR/0106/65/000/009/0043/0049 AUTHOR: Konstantinov, P. A. ORG: none TITLE: Two-channel communication system with stable difference frequency and amplitude keying 4 44 55 SOURCE: Elektrosvyaz', no. 9, 1965, 43-49 TOPIC TAGS: signal noise separation, radio communication system ABSTRACT: This system of radio communication is considered: a signal sent by a two-frequency transmitter (on both frequencies) is received by two receivers whose IF amplifiers (see figure) combine their outputs in a multiplier M (mixer); next, amplifier-and-differencefrequency-filter ADF isolates the difference frequency and sends it to detector D and decision unit DU. If the difference-frequency stability is much higher than that of transmitter frequencies, the ADF passband can be made 1/2 UDC: 621.396.629

SUB CODE: 17 / SUBM DATE: 19Apr64 / ORIG REF: 002 / OTH REF: 001	much narrower than the of IFA signal and noise output dispersions with with the above two-chasystem, is given as: bands, respectively. SUB CODE: 17 / SUB	h and without signal system, a $Q > 0.5 \Delta f/\Delta F$ Orig. art. has:	gnal are found s compared to ', where Δf as 3 figures and	. A true po the convent ad AF are 44 formula	ermined, and wer gain of the control	nd the final stainable -channel ADF pass-
					IH REF: 0	

L 14295-66 EWT(n)/EPF(n)=2GG/RD ACC NR: AT6003878 SOURCE CODE: UR/2865/65/004/000/0445/0450 AUTHOR: Zhukov-Verezhnikov, N. N.; Volkov, M. N.; Rybakov, N. I.; Saksonov, Kozlov, V. A.; Konstantinov, P. A.; Antipov, V. V.; Dobrov, N. N.; Aniskin, ORG: none TITLE: New ways of studying chemical protection against genetic changes 19,44,55 SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy kosmicheskoy biologii, v. 4, 1965, 445-450 TOPIC TAGS: bacteria, x ray irradiation, bacterial genetics, chemical agent ABSTRACT: Aminothiols and some pyrimidine analogs were tested for their ability to block development of infectious phage from prophage after induction of E. coli K-12 (λ) with x-rays. Doses with a previously established nontoxic effect (0.05% concentration) were used. The desired chemical preparation was added to a bacterial culture diluted in a physiological medium. Experimental and control samples were subjected to x-ray irradiation (dose, 15,000 r) and then cultured on agar. The number of induced phage particles in irradiated samples with and without each preparation was then compared. 2-Mercaptopropylamine hydrochloride was

L 14295-66

ACC NR: AT6003878

most effective: cultures treated with it produced 119 times fewer phage particles than control samples. Other good inhibitors of induced phage formation were 2-(gamma-aminopropyl) disulfide dihydrobromide, sodium diethyldithiocarbamate and ammonium dithiocarbamate, which reduced phage production 76.3—70.1 times. Less effective were the salts of 8 - mercaptoethylamine tested: 2-mercaptoethylamine hydrobromide, 2-mercaptoethylamine disulfide hydrochloride, 2-mercaptoethylamine hydrochloride, and 2-mercaptoethylamine hydrochloride.

The experimental data show the essential connection between the chemical structure of the tested preparations and their ability to block the development of infectious phage. The antigenetic effect of \$\beta\$-mercapto-ethylamine preparations is determined by their acid radicals as well as by their base. It may be possible to obtain even more effective preparations of this compound by forming salts with other acids. The failure of \$3-\beta\$-aminoethylisothiuronium hydrobromide to produce an antigenetic effect is especially interesting because in previous experiments this compound decreased the death rate of animals subjected to a lethal radiation dose by 70-100%. Orig. art. has: 1 table. [ATD PRESS: 4091-F] SUB CODE: 06 / SUEM DATE: none / CRIG REF: 013 / OTH REF: 003 Card 2/2

L 14294-66

.ACC NR: AT6003881

tained in the second generation. However, preparation P-46 completely removed the injurious radiation effect in that generation. Experimental data indicate the possibility of partially or completely removing the depressing effect of β -radiation on plants with the help of physiologically active compounds. Orig. art. has: 4 tables. [ATD PRESS: 4091-F]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 004 / OTH REF: 005

GC 3/3

Two-channel communication system with stable difference frequency and amplitude keying. Elektrosviaz' 19 no.9:43-49 S'65.

(MIRA 18:9)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000824410013-8



31198 S/106/61/000/012/002/010 A055/A127

AUTHOR: Konstantinov, P. A.

TITLE:

On the expediency of using multifrequency communication systems

PERIODICAL: Elektrosvyaz', no. 12, 1961, 13 - 18

TEXT: The author examines the noise immunity of multifrequency communication systems with automatic reception. The number of possible combinations with a binary code and with an m-base code is:

and -

$$N_2 = 2^{n_2}$$

(1)

$$N_m = m^{m}$$

(2)

respectively. Expressing by P_m and P_2 , respectively, the probability of the elementary signal distortion, the probability of correct reception of all the n_m elementary signals composing a code combination, i. e. the probability of correct reception of the order, will be:

 $Q_{km} = (1 - P_m)^{n_m}$

(4)

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On the expediency of using multifrequency...

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and the probability of the distortion of the order (assuming that $P_{m} \ll 1$) will be:

 $P_{km} = n_m P_m, \qquad ($

if for m = 2:

 $P_{k2} = n_2 P_2.$ (6)

The relative probability of distortion is

$$\frac{P_{km}}{P_{k2}} = \frac{1}{\log_2 m} \frac{P_m}{P_2}.$$
 (7)

The author determines the relative probability of distortion in the case of multi-frequency communication systems where code combinations are composed of successive sendings (oscillations of one of the m frequencies can correspond to each of these sendings). It is assumed that the receiver contains frequency discriminators preceded by filters and followed by comparing devices. Introducing the expressions $\alpha_{\rm m} = A/\delta_{\rm m}$ and $\alpha_{\rm m} = A/\delta_{\rm m}$ for the signal-to-interference ratio, the author finds, for the case analyzed by L. M. Fink [Abstracter's note: No explanation given]:

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On the expediency of using multifrequency...

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$$\frac{P_{km}}{P_{k2}} = \frac{2(m-1)!}{\log_2 m} \sum_{i=1}^{m-1} \frac{(-1)^{i+1}}{(i+1)!(m-i+1)!} \exp\left[\frac{\alpha_2^2(1-i)}{4(1+i)}\right]. \tag{14}$$

2) for a high frequency stability $(\alpha_m = \alpha_2 \sqrt{\log_2 m})$:

$$\frac{P_{km}}{P_{k2}} = \frac{2(m-1)!}{\log_2 m} \sum_{i=1}^{m-1} \frac{(-1)^{i+1}}{(i+1)!(m-i-1)!} \exp \left[\frac{\omega_2^2[1+i(1-2\log_2 m)]}{4(i+1)}\right]. \tag{15}$$

These formulae correspond, however, to two extreme cases, i.e. when the receiver pass-band is determined entirely either by the frequency instability $(\alpha_m = d_2 = \text{const.})$ or by the duration of the elementary signal $(\alpha_m = \alpha_2 \sqrt{\log_2 m})$. It is interesting to examine also the intermediate case and to find the dependence of the relative probability of distortion on the frequency stability. Expressing by T_m and T_2 the duration of elementary signals and assuming that an increase of m brings about an increase of the signal duration according to the relationship:

$$T_{\rm m} = T_2 \log_2 m, \tag{8}$$

whereas the pass-band of the separation filters is narrowed q times, the author

Card 3/5

On the expediency of using multifrequency...

31198 S/106/61/000/012/002/010 A055/A127

finds:

$$\frac{P_{km}}{P_{k2}} = \frac{m-1}{\log_{2}m} \exp\left[\frac{\alpha_{2}^{2}}{4}(1-q)\right]. \tag{19}$$

In order to estimate the influence of the frequency instability on the probability of distortion, he assumes that the filter band is:

$$\Delta f_{\text{filt.}} = \Delta f_{\text{7}} + \Delta f_{\text{instab.}}$$

Introducing Δf_{instab} , or rather, the expression:

b =
$$\Delta f_{instab} \tau_2$$

into formula (19), he finally obtains:

$$\frac{P_{km}}{P_{k2}} = \frac{m-1}{\log_2 m} \exp \left[\frac{\alpha_2^2 (1 - \log_2 m)}{4 (1 + \log_2 m)}\right]. \tag{21}$$

This formula permits him to investigate the dependence of the probability of dis-

Card 4/5

29586

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D201/D304

6,9800

Konstantinov, P.A., Member of the Samety

TITLE:

AUTHOR:

The interference-killing features of a communication system with tone manipulation at an ideal reception

PERIODICAL: Radiotekhnika, v. 16, no. 11, 1961, 18 - 25

Various communication systems with tone manipulation when two signals having different amplitudes are fully detectable. An ideal receiver is stated to be one receiving the minimum probability of signal distortion. For two values of signal $S_1(t)$ and $S_2(t)$ and equal energies, the ideal receiver detects S_1 when the ratio of probability functions satisfies condition

condition
$$\frac{L(S_1)}{L(S_2)} = e^{\int_0^{\tau} \int_0^{\tau} x(t)[S_1(t)-S_2(t)]dt} > 1 \qquad (1)$$

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The interference-killing features ...

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is the correlation and E_0 is the signal energy and $\Phi(x)$ the probability integral. 1) Communication system FM-AM. This consists of frequency manipulation of the sub-carrier and of amplitude modulation of the carrier. For this case

$$R_{g} = \frac{1}{1 + \frac{m^{2}}{2}},$$
(8)

which for m = 1 becomes $R_8 = 2/3$ and Eq. (3) becomes

$$P = 0.5 - \Phi(\sqrt{\frac{E_0}{6N_0}}) . \tag{9}$$

For FM only this equation is

$$\mathbf{P} = 0.5 - \mathbf{T}(\sqrt{\frac{\mathbf{E}}{2\mathbf{N}_0}}). \tag{10}$$

Comparing the two, shows that the power gain of FM-AN is 3 times greater. 2) PM-AM system. From it P is derived as

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The interference-killing features ...

$$\mathbf{P} = 0.5 - \Phi(\sqrt{\frac{E_0}{3N_0}}) \tag{13}$$

which shows an improvement on FM-AM system. 3) FM-FM system. Rs for this system is derived as

(20) $R_{\mathbf{g}} = J_0^2(\beta)$

where β is the modulation index. For large β , therefore, the probability of signal distortion will be determined by Eq. (10) as for the pure FM system. 4) PM-FM system. For this R_s is derived as

 $R_8 = J_o(2\beta)$

For a given modulation index, and using (23) and (3), the probability of signal distortion may be determined. It will be smallest for β corresponding to the negative values of the Bessel function $J_0(2\beta)$. Condition (2) permits the design of the ideal receiver for the above systems. It consists of two heterodynes, coherent with the signals, two multipliers and two integrators. The integrated

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The interference-killing features ...

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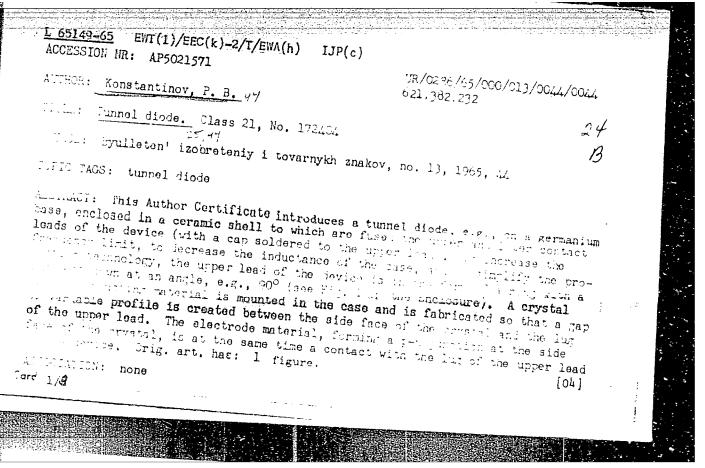
effects of both channels are read out and depending on the sign of the difference obtained, a threshold arrangement records the positive or negative signal. There are 1 figure and 3 Soviet-bloc references.

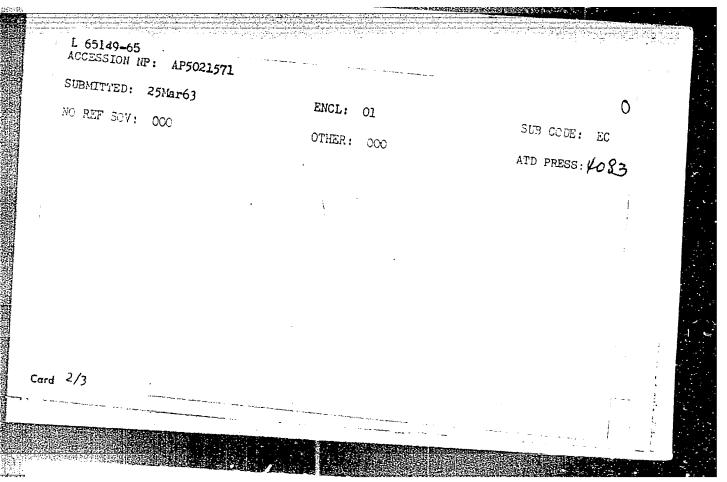
ASSOCIATION: Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektroswazi im. A.S. Popova (Scientific and Technical Society of Radio Engineering and Electrical Communication im. A.S. Popov) [Abstractor's note: Name of Association taken from 1st page of journal].

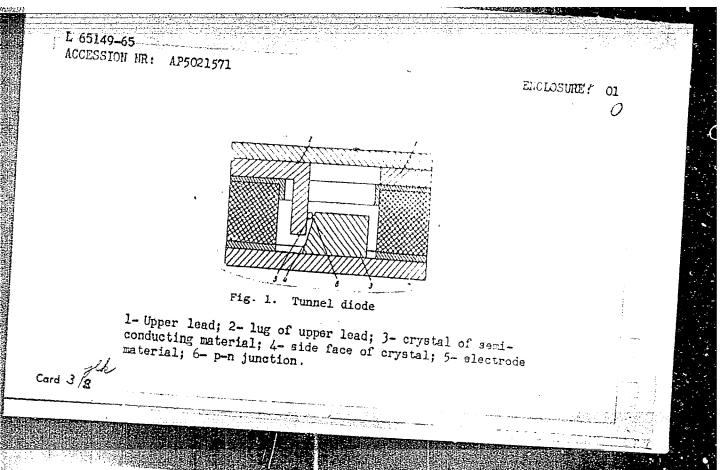
SUBMITTED: November 3, 1960

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Card 5/5







USSR/Cultivated Plants. Fruits. Berries.

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SAME DE LA COMPANSION DE

Abs Jour : Ref Zhur-Biol., No 15, 1958, 68361

: Konstantinov, P. K., Ol'khovskiy, M. K. Author Inst

Title

: The Best Strawberry Strains in Polesia and in the Ukrainian Wooded Steppe Zones.

Orig Pub : Sad i ogorod, 1957, No 2, 50-52

Abstract: The Culver strawberry strain occupies first place in terms of yields, fruit size, and taste qualities. The Koralka strain occupies second place, and constitutes the most valuable preserving kind. In Lugansk, Zhitonir, and Suny Oblast's, the Mysovka strain is outstanding in terms of yields. Kiev Early No 2 is the earliest-ripening strain. It ripens 7-8 days carlies then the Pechebinskiew strain. In 1955 lier than the Roshchinskaya strain. In 1955,

Card : 1/2

CIA-RDP86-00513R000824410013-8" **APPROVED FOR RELEASE: 06/19/2000**

**Mone More Article Concerning the Organisation of Testing Work, Sov. Agron., Sov. Active Member, All-Union Acad. Agr. Sci. in. Lenin

KONSTANTINOV, PETR NIKIFOROVICH

Agriculture

Principles of experimental work in agriculture, Moskva, Gos. izd-vo sel@khoz. lit-ry, 1952

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

- 1. KONSTANTINOV, P. N.
- 2. USSR (600)
- 4. Irrigation
- 7. Problems of watering and irrigation during the growing season. Gidr. i mel. 5 no. 2, 1953

. Monthly List of Russian Accessions, Library of Congress, June 1953, Unclassified.

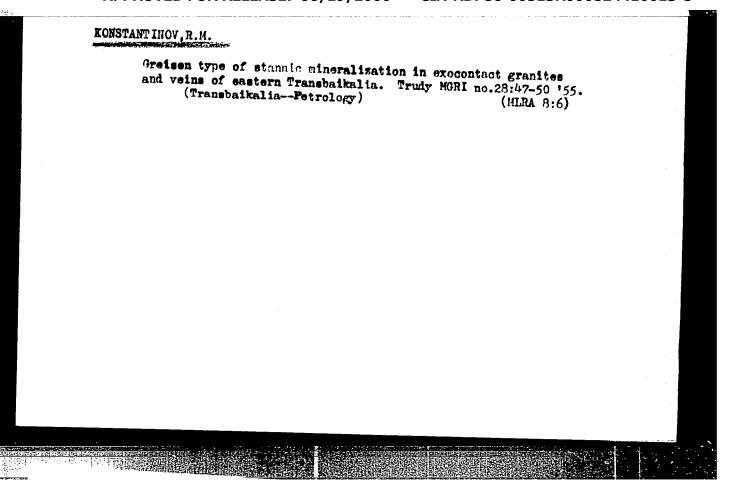
6791. Konstantinov, P. N. Maslichnyye kul'tury v penzenskoy oblasti. Penza, Kn. izd., 1954. 80 s. s. ill. 20 sm. 3.000 ekz. 1 R. 5 K. - (55-2947) P 633.85 (47.398)

SO: Knizhnaya Letopis' No. 6, 1955

KONSTANTINOV, P. N.

KONSTANTINOV, R.

Preliminary Pressed and Churned Oils (Ekible Salad Oils). Leka Promishlenost (Light Industry), #12:21:Dec. 1954



mer were, B. M.

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 5,

AUTHORS:

Aristov, V. V., Stankeyev, Ye. A., Konstantinov,

TITLE:

The Origin of Amazonite Granites in the Eastern Trans-Baikal Region (K voprosu o proiskhozhdenii amazonitovykh granitov v Vostochnom Zabaykal'ye)

PERIODICAL:

Tr. Mosk. geol-razved. in-ta, Vol 29, pp 52-56, 1956

ABSTRACT:

Several small masses of amazonite granites are known in the eastern trans-Baikal region. They are associated with specific rare-metal mineralization. A mass, forming a steeply dipping dike-like body (400 to 500) was studied. The amazonite granites consist of microcline-amazonite (30 percent, occurring in grains of irregular outlines, and replaced by quartz), quartz (30 percent), albite

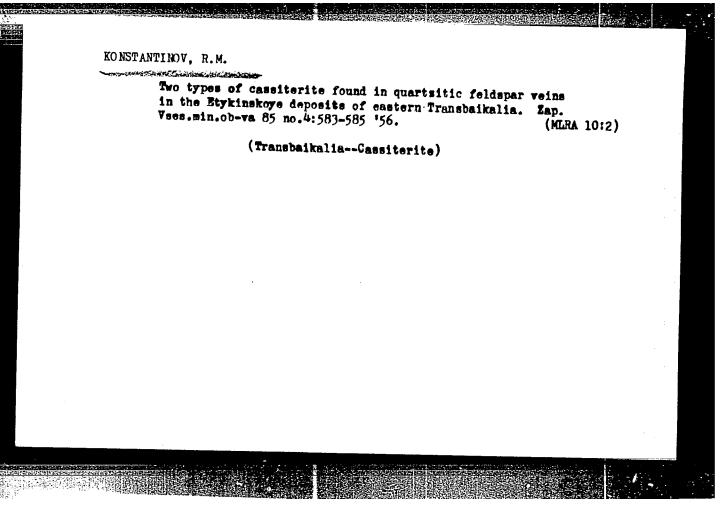
Card 1/3

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000824410013-8

15-57-5-6112

The Origin of Amazonite Granites (Cont.)

and other minerals that contain rare and disseminated elements lead the authors to suggest that the amazon granites were formed by crystallization of a magma approximately the composition of pegmatite and derived from the differentiation of common biotitegranite magma. Rapid crystallization of the magma at low temperatures and pressures was responsible for the absence of secondary differentiation and for the elimination of the volatile constituents. These latter gave rise to greisenization of the host sand-silt rocks up to the final consolidation of the mass. Card 3/3



KHETCHIKOV, L.N.; KONSTANTINOV, R.M.

Distribution of zinc, lead, and copper in enclosing rocks of tin deposits in the Far Hast. Geol. rud. mestorozh. no.4:127-133
J1-Ag '59. (MIRA 13:1)

l. Dal'nevostochnyy filial Sibirskogo otdeleniya AN SSSR, Vladivostok i Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR, Moskva.

(Soviet Far East--Ore deposits)

KONSTANTINOV, R.M.

Some problems in studying the dynamics of hydrothermal solutions. Soob. DVFAH SSSR no.10:250-254 159. (NIRA 13:11)

1. Dal'nevostochnyy politekhnicheskiy institut imeni V.V.Kuybysheva. (Water, Underground)

KONSTANTINOV, R.M.; AKIMOVA, G.M.; KHETCHIKOV, L.N.; KOROSTELEV, P.G.

Zinc content of rocks from the Tetyukhe skern-complex and department

Zinc content of rocks from the Tetyukhe skarn-complex ore deposits. Soob. DVFAN SSSR no. 10:262-264 159. (MIRA 13:11)

1. Dal nevostochnyy politekhnicheskiy institut im.V.V.Kuybysheva i Dal nevostochny filial Sibirskogo otdeleniya AN SSSR. (Zinc--Analysis) (Tetyukhe Valley--Ore deposits)

Corganizing geochemical prospecting for complex ore deposits in the Maritime Territory. Soob.DVFAN SSSR no.12:3-8 '60. (MIRA 13:11)

1. Dal'nevostochnyy filial imeni V.L.Komarova Sibirskogo otdeleniya AN SSSR i Institut geologii rudnykh mestoroxhdenii, petrografii, mineralogii i geokhimii AN SSSR.

(Maritime Territory—Geochemical prospecting)

TOMSON, I.N.; KONSTANTINOV, R.M.

Relationship between ore formations as revealed by certain regions in the Pacific ore belt. Geol.rud.mestorozh. no.4:61-70 Jl-Ag (MIRA 14:10)

1. Institut geologii rudnykh mestorozhdenii, petrografii, mineralogii i geokhimii AN SSSR. (Far East—Ore deposits)

KHETCHIKOV, L.W.; KONSTANTINOV, R.M.

Importance of the dispersion of primary halos of zink in prospecting for skarn-complex metal and tin-complex metal deposits in the Far East. Biul.naugh.-tekh.inform.VIMS no.1:3-5 *60. (MIRA 15:5)

1. Dal'nevostochnyy filial AN SSSR.
(Far East—Ore deposits)

BETEKHTIN, A.G.; VOL'FSON, F.I.; GENKIN, A.D.; DUBROVSKIY, V.N.; YEROFEYEV, B.N.; KONSTANTINOV, R.M.; MATERIKOV, M.P.; SOKOLOV, G.A.; STRAKHOV, N.M.; TATARINOV, P.M.; TOMSON, I.N.; SHADLUN, T.N.; SHATALOV, Ye.T.; SHIPULIN, F.K.

Oleg Dmitrievich Levitskii; obituary. Geol. rud. mestorozh. no.2:
3-6 Mr-Ap '61.

(Levitskii, Oleg Dmitrievich, 1909-1961)

(Levitskii, Oleg Dmitrievich, 1909-1961)

LEVITSKIY, O.D. [doceased]; ARISTOV, V.V.; KONSTANTINOV, R.M.; STANKEYEV, Yd.A.; SOKOLOV, G.A., prof., otv.red.; ZNAMENSKAYA, N.V., red.izd-va; GUS'KOVA, O.M., tekhn.red.

[Etyka tin ore deposit in eastern Transbaikalia] Etykinskoe olovorudnoe mestorozhdenie Vostochnogo Zabaikal'id. Moskva, 1963. kl p. (Akademiia nauk SSSR. Institut geologii rudnykh mestorozhdenii, petrografii, mineralogii i geokhimii. Trudy, no.1003) (MIRA 17:3)

1. Chlen-korrespondent AN SSSR (for Levitskiy).

TOMSON, I.N.; IVANOV, I.B.; KONSTANTINOV, R.M.; LOBANOVA, G.M.; POLYAKOVA, O.P.

Absolute age of Mesozoic magmatic complexes and ore formations in eastern Transbaikalia. Izv. AN SSSR. Ser. geol. 28 no.12:31-40 D'63. (MIRA 17:2)

1. Institut geologii rudnykh mestorozhdeniy, petrcgrafii, mineralogii i geokhimii AN SSSR, Mosve.

TOMSON, I.N.; KONSTANTINOV, R.M.; POLYAKOVA, O.P.

Genetic series of ore formations in Transbaikalia. Geol rud. mestorozh. 6 no.2:38-51 Mr-Ap '64. (MIRA 17:6)

l. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR, Moskva.

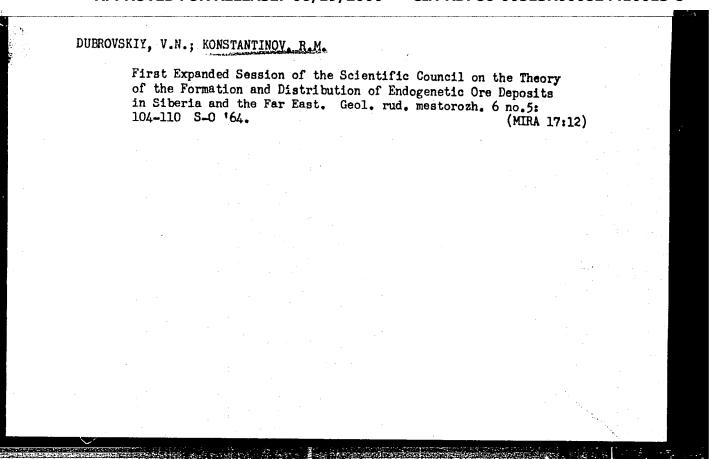
TOMSON, I.N.; KONSTANTINOV, R.M.; POLYAKOVA, O.P.; IVANOV, I.B.; YESIKOV, A.D.

Upper Mesozoic hydrothermal cycles in eastern Transbaikalia in light potassium—argon and lead—isotope dating. Izv. AN SSSR Ser. geol. 29 no.7:3-11 Jl 164 (MIRA 18:1)

1. Institut geologii rudnykh mestorozhdeniy, petrografii, mine-ralogii i geokhimii AN SBSR, Moskva.

KONSTANTINOV, R.M.; ZHARIKOV, V.A.; OMEL'YANENKO, B.I.;
PETROVSKAYA, N.V.; SHATALOV, Ye.T.;

[Study of the characteristics of the distribution of mineralization in metallogenetic research on ore regions; basic principles of metallogenetic research and the compilation of metallogenetic and prognostic maps of ere deposits] Isuchenie sakonomernostei rasmeshcheniia mineralizatsii pri metallogenicheskikh issledovaniiakh rudnykh raionov; osnovnye printsipy metallogenicheskikh issledovanii i sostavleniia metallogenicheskikh i prognoznykh kart rudnykh raionov. Moskva, Nedra, 1965. 302 p. (MIRA 18:7)



DUBROVSKIY, V.N.; KONSTANTINOV, R.M.

In the meeting of the Department of the Geology of Endogene Ore Deposits of the Institute of the Geology of Ore Deposits, Petrology, Mineralogy, and Geochemistry of the Ac demy of Sciences of the U.S.S.R. Geol.rud.mestorozh. 7 no.4:102-104 Jl-Ag (65.

(MIRA 18:8)

YESIKOV, A.D.; TOMSON, I.N.; KONSTANTINOV, R.M.; POLYAKOVA, O.P.

Isotope composition of ore lead from various type deposits in eastern Transbaikalia. Geokhimiia no.7:791-800 Jl 155.

1. Institut geologii rudnykh mestorczhdeniy, petrografii, mineralogii i geokhimii AN SSSR, Moskva. Submitted June 11, 1964.

EQUIPMENT of troop transport trucks. Voen.vest. 36 no.3:86-89
Er '56. (MIRA 9:8)

(Motor trucks, Military)

EXMINITINOV, S., podpolkovnik.

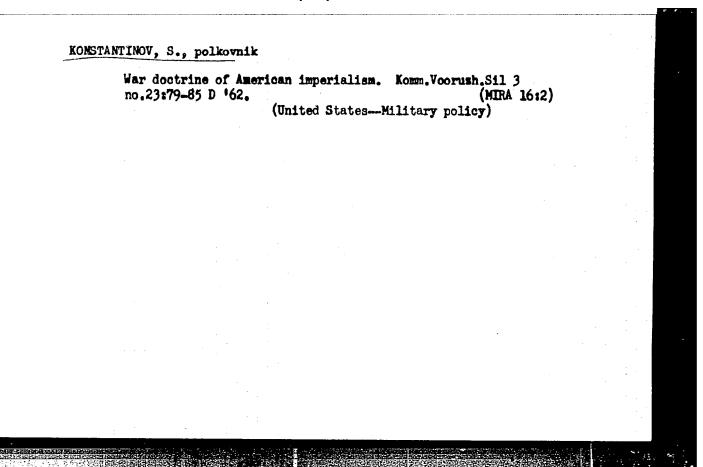
Driving caterpillar tractors, Za rul. no.10:15-16 0 '57.(MIRA 10:11)

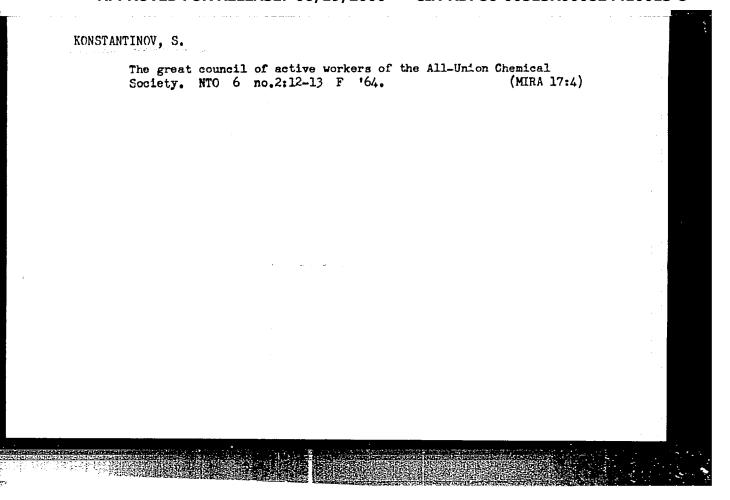
(Caterpillar tractors)

KONSTANTINOV, S., glavnyy inzhener.

Letter to the editor. Izv.AN SSSR Otd.tekh.nauk no.5:779-780 My '53.
(MIRA 6:8)

1. Moskovskiy mashinostroitel'nyy zavod "Borets".
(Bearings (Machinery)) (D'iachkov, A.K.)





9(9) AUTHORS:

SOV/142-58-6-13/20

Shamayev, Yu.M., and Konstantinov, S.G.

TITLE:

Computation of the Relative Sensitivity of a Deflection System With Travelling Waves (Raschet otnositel'noy chuvstvitel'nosti otklonyayushchey sistemy s begushchey volnoy)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy - Radiotekh-

nika, 1958, Nr 6, pp 719-723 (USSR)

ABSTRACT:

The article deals with the computation of the dynamic sensitivity of a deflection system with travelling waves (DSTW), in the form of a semi-circular ribbon system, under synchronous and asynchronous conditions of beam motion, without accounting for dispersion and reflection in the system. In oscillographs for use with VHF and short duration videoimpulses, ordinary methods of extending the frequency range of the scope mechanism - e.g. shortening the deflection system and/or increasing the deflection voltage - are not adequate because they

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decrease the sensitivity of the deflection system.

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Computation of the Relative Sensitivity of a Deflection System With Travelling Waves

Several types of electron beam tubes with travelling waves have been developed, providing broader frequency coverage without loss of sensitivity (see Figure 1), and in which the deflection system is likened to a series of ordinary deflection plates with a short transit time, distributed along the electron beam axis, and connected one to another through a segment of a delay line. Delay time of the input signal wave in DSTW is selected equal to the transit time of an electron between neighboring pairs of deflection plates, which condition is met when the velocities of the electrons and wave (distributed along the deflection system) are equal. The resulting relative sensitivity is approximately equal to the sensitivity of one pair of plates multiplied by their number. The authors then compute the dynamic sensitivity of DSTW without accounting for the re-

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Computation of the Relative Sensitivity of a Deflection System With Travelling Waves

flected wave, and on the assumption that electromagnetic wave dispersion is absent in the band of frequencies to be registered. A complex plane is used for visual representation of the process of interaction between the electron beam and the travelling wave field (Figure 2). The results of computations for an experimental tube with stated parameters are introduced by way of example. Checking of the formulae used was done with an experimental prototype travelling-wave tube produced by the Moscow Energetics Institute in 1953, using VHF frequencies. The influence of the accelerating voltage on the sensitivity of the tube at a frequency of 3128 mc for computed and experimental conditions are shown in the graph of figure 4. This article was recommended by the Kafedra teoreticheskikh osnov elektrotekhniki Moskovskogo

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(J)

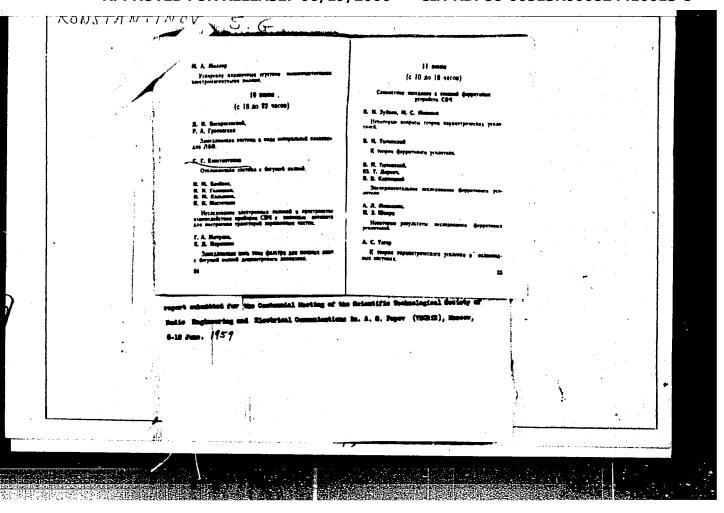
Computation of the Relative Sensitivity of a Deflection System With Travelling Wa \mathbf{v} es

ordena Lenina energeticheskogo instituta (Chair of the Theoretical Bases of Electrical Engineering of the Moscow Order of Lenin Power Institute). There are 2 diagrams, 2 graphs, and 16 references, 5 of which are Soviet, 8 English, 1 German, and 2 French.

SUBMITTED:

June 16, 1958

Card 4/4



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1. Machal'nik otdela signalizatsii, tsentralizatsii i blokirovki alushby signalizatsii i svyasi Donetskoy dorogi (for Konstantinov).
2. Otdel signalizatsii, tsentralizatsii i blokirovki slushby signalizatsii i svyasi Donetskoy dorogi (for Grishayev).

(Railroads—Signaling—Interlocking systems)

(Bailroads—Employees)
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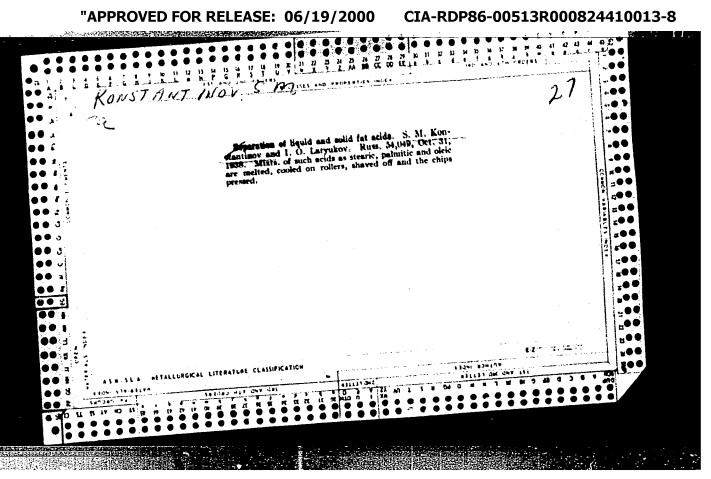
KONSTANTINOV, Semen Ivanovich; CHUZHOVA, A.P., red.

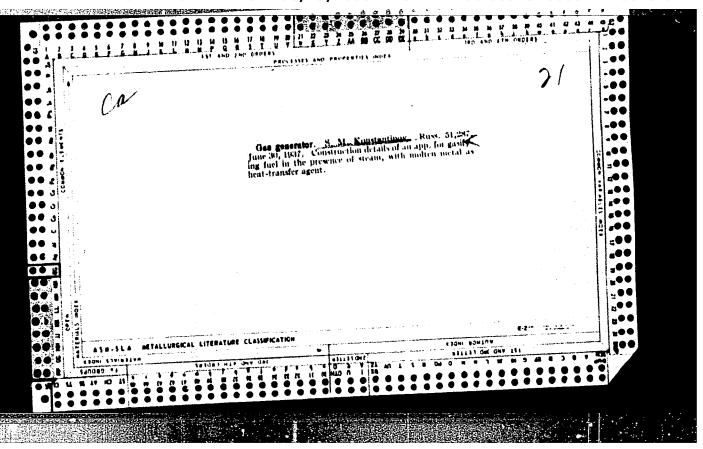
[Viticulture in Astrakhan Province] Vozdelyvanie vinograda
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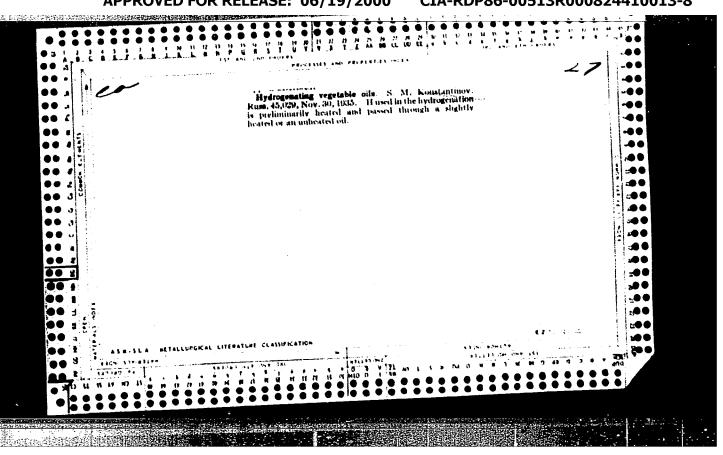
(MIRA 18:3)

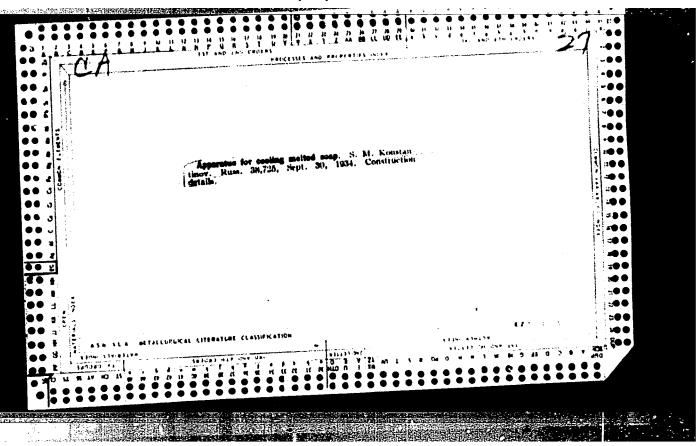
ARESHKIN, Grigoriy Ivanovich; GORYACHEV, Vladimir Trifonovich; YEVTYUKHIN, Ivan Yegorovich; KONSTANTINOV, Sergey Leonidovich; LAVROV, Oleg Mikhaylovich; PERLIN, Vladimir Sergeyevich; SEREBRYAKOV, Yuriy Fedorovich; KOSOROTOV, B.V., inzh.-polkovnik zapasa, red.; ZUDINA, M.P., tekhn. red.

[Training manual for motor Whicle drivers] Posobie dlia podgotovki voditelia avtomobilia. Moskva, Voen.izd-vo M-va obor. SSSR, 1962. 501 p. (MIRA 15:4) (Automobile drivers) (Vehicles, Military)









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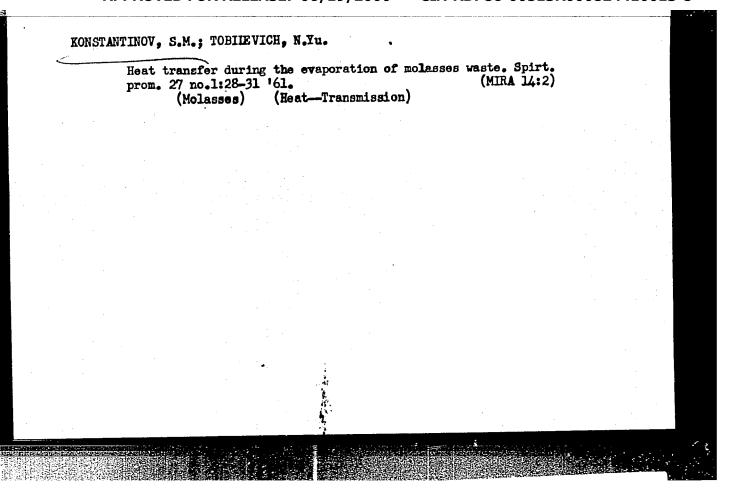
1. Kafedra teploenergetiki Kiyevskogo tekhnologicheskogo instituta pishchevoy promyshlennosti.

(Molasses) (Heat capacity)

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Viscosity and specific gravity of molasses waste. Spirt. (MIRA 13:6) prom. 26 no.1:27-30 [60. (Molasses)

Thermal con	uctivity of molasses waste. Spirt.prom. 26 no.3:13-14 (MIRA 13:10) (Distilling industriesBy-products)		
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